

WHAT IS CLAIMED IS:

1. A lighting unit comprising:
  - a plurality of light-emitting diode (LED) light sources arranged in parallel;
  - a plurality of light-guiding members arranged along a direction wherein said LED light sources are arranged;
  - a light reflecting part arranged on one side face of said light-guiding members;
  - a light diffusion part arranged on an other side face of said light-guiding members;
  - a light semi-transmitting reflection part arranged between said LED light source and said light diffusion part; and
  - an optical path changing part arranged above said light-guiding members;wherein a side of said light-guiding members that faces said light diffusion part is flat.
2. A lighting unit according to claim 1, wherein said optical path changing part enables changing of an optical path extending perpendicular to a longitudinal direction of said LED light sources.
3. A lighting unit according to claim 1, wherein said optical path changing part enables changing of an optical path extending in a direction crossing perpendicularly to a longitudinal direction of said LED light

sources, and enables alignment of a projecting direction of light from said LED light sources.

4. A lighting unit comprising:

- a plurality of light-emitting diode (LED) light sources arranged in parallel;
- a plurality of light-guiding members arranged along a direction wherein said LED light sources are arranged;
- a light reflecting part arranged on one side face of said light-guiding members;
- a light diffusion part arranged on an other side face of said light-guiding members;
- a light semi-transmitting reflection part arranged between said LED light source and said light diffusion part; and
- an optical path changing part arranged above said light-guiding member;

wherein a side of said light-guiding members that faces said light diffusion part is flat, and said light guiding members are provided with plural grooves to accommodate said plural LED light sources.

5. A lighting unit according to claim 4, wherein a transmission coefficient of said semi-transmitting reflection part is lower than a reflection coefficient of said semi-transmitting reflection part.

6. A lighting unit according to claim 4, wherein said semi-transmitting reflection part has transmitting-scattering characteristics.

7. A lighting unit according to claim 4, wherein a plurality of said light diffusion parts are provided, and an interval is provided between each of said light diffusion parts.

8. A display apparatus comprising:  
a lighting unit including  
a plurality of light-emitting diode (LED) light sources arranged in parallel,  
a plurality of light-guiding members arranged along a direction wherein said LED light sources are arranged,  
a light reflecting part arranged on one side face of said light-guiding members,  
a light diffusion part arranged on an other side face of said light-guiding members,  
a light semi-transmitting reflection part arranged between said LED light source and said light diffusion part, and  
an optical path changing part arranged above said light-guiding members,  
wherein a side of said light-guiding members that faces said light diffusion part is flat;  
color filters; and  
a display panel which is capable of displaying images;

wherein spectral luminescent characteristics of said LED light sources are included in spectral transmission coefficient characteristics of said color filters.

9. A display apparatus comprising:
  - a lighting unit including
    - a plurality of light-emitting diode (LED) light sources arranged in parallel,
    - a plurality of light-guiding members arranged along a direction wherein said LED light sources are arranged,
    - a light reflecting part arranged on one side face of said light-guiding members,
    - a light diffusion part arranged on an other side face of said light-guiding members,
    - a light semi-transmitting reflection part arranged between said LED light source and said light diffusion part, and
    - an optical path changing part arranged above said light-guiding members,
    - wherein a side of said light-guiding members that faces said light diffusion part is flat;
  - a display panel which is capable of displaying images; and
  - a control unit to control an on-off operation of said LED light sources of said lighting unit in synchronism with scanning of said display panel.